

CLAIMS

What is claimed is:

1 1. A pressure piece for effecting pressure contact within a power
2 semiconductor module, the module includes a housing, at least one electrically
3 insulating substrate having an insulating body with a plurality of metal connection tracks
4 located therein and insulated from one another, at least one power semiconductor
5 component located on and electrically connected to the connection tracks and at least
6 partially resilient connection leads, for electrically connecting the connection tracks to a
7 printed circuit board disposed outside the housing,

8 wherein the pressure piece is dimensionally stable and includes a plurality
9 of pressure elements disposed on a first primary face of the pressure piece facing the
10 printed circuit board, and the pressure elements space the primary face from the printed
11 circuit board.

1 2. The pressure piece of claim 1, wherein the pressure piece has at
2 least one edge, a second primary face and at least one opening connecting the first and
3 second primary faces, and

4 the pressure elements are disposed such that a fluid may flow between
5 the at least one edge and the at least one opening.

1 3. The pressure piece of claim 1, wherein the pressure piece has at
2 least one electrically insulated sheath for receiving a screw connection.

1 4. The pressure piece of claim 1, wherein the pressure piece
2 comprises an electrically insulating, dimensionally stable, plastic.

1 5. The pressure piece of claim 1, wherein the pressure piece
2 comprises a composite of an electrically insulating plastic and a metal core.

1 6. The pressure piece of claim 1, wherein the plurality of pressure
2 elements includes at least one rib.

1 7. The pressure piece of claim 1, wherein the plurality of pressure
2 elements includes at least one prong.

1 8. The pressure piece of claim 6, wherein the plurality of pressure
2 elements includes at least two ribs which form a frame.

1 9. The pressure piece of claim 6, wherein the at least one rib has at
2 least one notch to permit fluid to flow therethrough.